1. (Original) A method for determining the location of a mobile device comprising:

receiving a location message from a communication network, wherein the location message comprises a plurality of signal tones;

modifying selected signal tones, wherein the selected signal tones have a frequency within a predetermined range of frequencies;

decoding the modified signal tones into a plurality of decoded values; and determining a location of a user based on at least the plurality of decoded values.

- 2. (Original) The method of Claim 1, wherein modifying the volume of selected signal tones comprises setting the volume of the selected signal tones to a predetermined value.
- 3. **(Original)** The method of Claim 1, wherein modifying the volume of selected signal tones comprises:

increasing a volume of each selected signal tone for which the volume is below a predetermined minimum; and

decreasing a volume of each selected signal tone for which the volume is above a predetermined maximum.

4. (Original) The method of Claim 1, wherein determining a location comprises:

determining the location of the user based on at least the plurality of decoded values, and

generating a location output that includes the location of the user and conforms to National Marine Electronics Association Standard 1083 ("NMEA-1083").

5. (Original) The method of Claim 1, wherein determining a location comprises:

determining the location of the user based on at least the plurality of values, and generating a location output that includes the location of the user and conforms to the SiRF binary protocol.

- 6. (Original) The method of Claim 1, wherein the predetermined range of frequencies includes only frequencies between 300 and 3500 Hz.
- 7. (Original) The method of Claim 1, wherein the plurality of signal tones comprise a plurality of Dual Tone Multifrequency (DTMF) tones, the DTMF tones identifying the location of a position locating device communicated through a mobile communication device.
- 8. (Original) The method of Claim 1, wherein the location message comprises a plurality of DTMF tones and wherein receiving a location message comprises:

receiving voice communication on a voice channel established between the user and the operator, and

receiving simultaneously the location message on the voice channel.

- 9. (Original) A device for determining the location of a communication device comprising:
- a network interface, operable to receive a location message comprising a plurality of signal tones;
- a signal enhancement module operable to modify selected signal tones, wherein the selected signal tones have a frequency within a predetermined range of frequencies;
- a tone decoder operable to decode the modified signal tones into a plurality of decoded values; and
- a translator operable to determine a location of a user based on at least the decoded values.
- 10. (Original) The system of Claim 8, wherein the signal enhancement module is operable to modify selected signal tones by setting a volume of all the selected signal tones to a predetermined value.
- 11. (Original) The system of Claim 8, wherein the signal enhancement module is operable to modify selected signal tones by:

increasing a volume of each selected signal tone for which the volume is below a predetermined minimum; and

decreasing a volume of each selected signal tone for which the volume is above a predetermined maximum.

12. (Original) The system of Claim 8, wherein the translator is operable to determine the location by:

determining the location of the user based on at least the plurality of decoded values, and

generating a location output that includes the location of the user and that conforms to National Marine Electronics Association Standard 1083 ("NMEA-1083").

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13. (Original) The system of Claim 8, wherein the translator is operable to determine the location by:

determining the location of the user based on at least the plurality of values, and generating a location output that includes the location of the user and that conforms to the SiRF binary protocol.

- 14. (Original) The system of Claim 8, wherein the predetermined range of frequencies includes only frequencies between 300 and 3500 Hz.
- 15. (Original) The system of Claim 8, wherein the plurality of signal tones comprise a plurality of Dual Tone Multifrequency (DTMF) tones, the DTMF tones identifying the location of a position locating device communicated through a mobile communication device.
- 16. (Original) The system of Claim 8, wherein the location message comprises a plurality of DTMF tones and wherein the network interface is further operable to receive a location message by:

receiving voice communication on a voice channel established between the user and the operator; and

receiving simultaneously the location message on the voice channel.

17. (Original) A computer program stored on a computer readable medium, the computer program operable to:

receive a location message from a communication network, wherein the location message comprises a plurality of signal tones;

modify selected signal tones, wherein the selected signal tones have a frequency within a predetermined range of frequencies;

decode the modified signal tones into a plurality of decoded values; and determine a location of a user based on at least the plurality of decoded values.

- 18. (Currently amended) The computer program of <u>Claim 17</u> Claim17, wherein the computer program is further operable to modify the volume of selected signal tones by setting the volume of the selected signal tones to a predetermined value.
- 19. (Currently amended) The computer program of <u>Claim 17</u> Claim17, wherein the computer program is further operable to modify the volume of selected signal tones by:

increasing a volume of each selected signal tone for which the volume is below a predetermined minimum; and

decreasing a volume of each selected signal tone for which the volume is above a predetermined maximum.

20. (Currently amended) The computer program of Claim 17 Claim 17, wherein the computer program is further operable to determine the location by:

determining the location of the user based on at least the plurality of decoded values, and

generating a location output that includes the location of the user and conforms to National Marine Electronics Association Standard 1083 ("NMEA-1083").

21. (Currently amended) The computer program of <u>Claim 17</u> Claim17, wherein the computer program is further operable to determine the location by:

determining the location of the user based on at least the plurality of values, and generating a location output that includes the location of the user and conforms to the SiRF binary protocol.

- 22. (Currently amended) The computer program of Claim 17 Claim 17, wherein the predetermined range of frequencies includes only frequencies between 300 and 3500 Hz.
- 23. (Currently amended) The computer program of Claim 17 Claim 17, wherein the plurality of signal tones comprise a plurality of Dual Tone Multifrequency (DTMF) tones, the DTMF tones identifying the location of a position locating device communicated through a mobile communication device.
- 24. (Currently amended) The computer program of Claim 17 Claim 17, wherein the location message comprises a plurality of DTMF tones and wherein the computer program is further operable to receive the location message by:

receiving voice communication on a voice channel established between the user and the operator, and

receiving simultaneously the location message on the voice channel.